

1 1) A system for aiming a weapon which comprises

2 a camera for capturing an acquired image of a theater of operations,
3 a computer for modifying the pixels in said image to generate a predictively
4 modified image that takes into account for environmental factors, and
5 a display for displaying said predictively modified image.

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7 2) The system recited in claim 1 wherein said camera acquires a panoramic
8 image.

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10 3) The system recited in claim 1 wherein said computer generates a predictively
11 modified image that designates the targets within range of said weapon.

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13 4) The system recited claim 1 wherein said weapon is adapted to emit a
14 projectile and wherein said computer generates a predictively modified image
15 that takes into account the flight characteristics of said projectile.

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17 5) The system recited in claim 1 wherein said acquired image includes a plurality
18 of pixels and wherein a set of vectors are applied to said pixels to generate a
19 predictively modified images, said vectors representing various factors that affect
20 aiming said weapon.

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22 6) The system recited in claim 1 wherein said acquired image includes a plurality
23 of pixels and wherein said pixels are moved to generate said predictively
24 modified image, the amount of movement of each pixel being dependent upon
25 environmental factors and the characteristics of said weapon.

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27 7) A system for providing guidance concerning the impact area of projectiles that
28 leave a moving platform,
29 a camera for acquiring an acquired image of a target area,
30 a computer for modifying the pixels of said image of said target area to generate
31 a modified image that represents the future impact area of said projectile,

1 a display for displaying said modified image.

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3 8) The system recited in claim 7 wherein said camera acquires a panoramic
4 image.

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6 9) The system recited in claim 7 wherein said computer generates a predictively
7 modified image that designates the targets within range of said weapon.

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9 10) The system recited claim 7 wherein said weapon is adapted to emit a
10 projectile and wherein said computer generates a predictively modified image
11 that takes into account the flight characteristics of said projectile.

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13 11) The system recited in claim 7 wherein said acquired image includes a
14 plurality of pixels and wherein a set of vectors are applied to said pixels to
15 generate a predictively modified images, said vectors representing various
16 factors that affect aiming said weapon.

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18 12) The system recited in claim 12 wherein said acquired image includes a
19 plurality of pixels and wherein said pixels are moved to generate said predictively
20 modified image, the amount of movement of each pixel being dependent upon
21 environmental factors and the characteristics of said weapon.

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23 13) A method of generating a predictively modified image from an acquired
24 images, said method comprising the steps of
25 capturing an acquired image of a theater of operations,
26 moving the pixels in said acquired image in accordance with a set of vectors
27 which represent environmental factors,
28 whereby the image represented by said moved pixels represents said
29 predictively modified display.\

1 14) The method in claim 13 wherein said predictively modified image is
2 generated by stretching or compressing said acquired image in directions
3 dictated by environmental factors.

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